1/2 025 UNCLASSIFIED PROCESSING DATE--04DEC70 TITLE--PROPHYLAXIS OF STAPHYLOCOCCAL COMPLICATIONS IN THE BURNED -U-

AUTHOR-(03)-PROSKUROV, V.A., KALASHNIKOV, A.P., ADAMENKO, N.N.

COUNTRY OF INFO--USSR

SOURCE--VOYENNO-MEDITSINSKIY ZHURNAL, NO 8, 1970, PP 26-28

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS -- THERMAL BURN, STAPHYLOCOCCUS, PROPHYLAXIS, ANTIBIOTIC

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/1048

STEP NO--UR/0177/70/000/003/0026/0028

CIRC ACCESSION NO--APO134748

UNCLASSIFIED

2/2 025 UNCLASSIFIED PROCESSING DATE--04DEC70 CIRC ACCESSION NO--APO134748 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. AT THE PRESENT TIME, ON THE BACKGROUND OF THE GROWTH OF STAPHYLOCOCCAL COMPLICATIONS EVERYWHERE, A ACONSIDERABLE INCREASE OF SUPPRATIONS OF BURNS WOUNDS IS NOTED (E. LOWBURG, I. BABB, AND V. BROWN, 1964). THIS CAN BE EXPLAINED TO A GREAT DEGREE BY LOWERING OF THE THERAPEUTIC EFFECT OF ANTIBIOTICS IN CONNECTION WITH THE EMERGENCE AND RAPID SPREAD OF STRAINS OF STAPHYLOCOCCI RESISTANT TO THEM. IT SUFFICES TO SAY THAT 78-97PERCENT OF THE STRAINS OF STAPHYLOCOCCI I SOLATED AT THE PRESENT TIME ARE RESISTNAT TO ANTIBIOTICS USED IN THE CLINIC (K. VUSKOVICH, 1966; N. G. ROGOL . 1967; V. I. GLADYSH, 1967; T. S. ZABALUYEVA AND V. G. DORDFECHUK, 1968, ETC). THIS DICTATES THE NEED TO FIND NEW AND EFFECTIVE METHODS OF COMBATING WOUND INFECTION, ESPECIALLY UNDER THE CONDITIONS OF BURN DIVISIONS. UNCLASSIFIED

USSR

UDC: 517.946

KALASHNIKOV A S Moscow

"A Problem Without Initial Conditions for Second-Order, Linear, Degenerate Hyperbolic Equations With an Infinite Region of Dependence"

Moscow, Matematicheskiy Sbornik, Novaya Seriya, Vol 88(130), No 4(8), Aug 72, pp 609-622

Abstract: The equation

 $\mathcal{L}u = \psi^{2}(t, x)u_{tt} + \varphi(t, x)u_{t} - (a^{i}(t, x)u_{x_{l}})_{x_{l}} + b^{i}(t, x)u_{x_{l}} + c(t, x)u = f(t, x)$ (1.1)

is considered in the layer $H=(0,T]\times\mathbb{R}^n$ where addition from 1 to n is done in accordance with repeating subscripts i, j; $x=(x_1,...,x_n)$; $a^{ij}(t,x)\equiv a^{ji}(t,x)$; the inequality $a^{ij}(t,x)\xi_i\xi_j\geqslant \mu|\xi|^2$, where $\mu=\text{consi}>0$, holds for any $(t,x)\in H$ and any real vector $\xi=(\xi_1,...,\xi_n)$; the functions $\psi(t,x)$ and $\phi(t,x)$ are nonnegative in H. Thus equation (1.1) is hyperbolic at points where ψ is positive and degenerates to a parabolic equation at other points (if ϕ is positive) or to an elliptical equation (if $\phi=0$). The author considers the problem without initial conditions but with restrictions on the permissible behavior of the solution when $|x|+\infty$ and when $t\to 0$. A definition 1/2

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

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KALASHNIKOV, A. S., Matematicheskiy Sbornik, Vol 88, No 4, Aug 72, pp 609-622

is given of the generalized solution of this equation, and its uniqueness is proved. An example is given which shows that the uniqueness can be violated if the restrictions are weaker. Two theorems of existence are presented. It is assumed in the first that degeneration takes place only when t=0. The generalized solution of equation (1.1) is constructed as a weak limit of solutions of the Cauchy problem with zero initial conditions in the expanding sequence of layers $H^i = [2^{-i}T, T] \times \mathbb{R}^n$ for equations $\mathcal{L}u = I_t$ (l=1,2,...), where the $f_{\mathcal{L}}$ are finite approximations of the function f. The second theorem of existence assumes degeneration also when t is greater than zero, but it is assumed in addition that the inequality

$$\varphi(t,x) \leqslant m_D \psi(t,x) \quad (m_D = \text{const} > 0)$$

holds for any compact $D \subset H$. This implies that $\operatorname{supp} \psi = \operatorname{supp} \varphi$. In this case the generalized solution of (1.1) is obtained as a weak limit of solutions of the Cauchy problem in H^2 for the regularized equations

$$\frac{1}{l^2}u_{il} + \frac{N}{l}u_i + \mathcal{L}u = f_l \quad (l = 1, 2, ...),$$

where N is a sufficiently large positive constant. 2/2

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

USSR

VDC 517.946

KALASHNIKOV, A. S., Chair of Differential Equations

"Problem Without Initial Conditions in Classes of Increasing Functions for Some Second-order Linear Degenerate Parabolic Systems. I"

Moscow, Vestnik Moskovskogo Universiteta, Seriya I -- Matematika, Mekhanika, No 2, Mar-Apr 71, pp 42-48

Abstract: The article considers systems of partial differential equations of the following forms:

$$Lu = \Phi(t, x) u_t - (A_{i, t}(t, x) u_{x_i})_{x_i} + B_{i, t}(t, x) u_{x_i} + C(t, x) u = f(t, x),$$

with requirements satisfied particularly by second-order symmetric, strongly parabolic systems degenerating on arbitrary subsets \overline{H} , as well as first-order symmetric systems. It is assumed that the functions $\phi^{\,8}(t,x)$ are ab-

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KALASHNIKOV, A. S., Vestnik Moskovskogo Universiteta, Seriya I -- Matematika, Mekbanika, No 2, Mar-Apr 71, pp 42-48

solutely continuous with respect to t in H, their generalized derivatives $\varphi_{\mathbf{t}}^{\mathbf{s}}$ are bounded, and $\varphi_{\mathbf{t}}^{\mathbf{s}}(0,\mathbf{x})=0$, given all $\mathbf{x}\in\mathbb{E}_{\mathbf{n}}$ (s=1,..., N). Then the Cauchy problem for system (1) in H with initial data given $\mathbf{t}=0$ is, generally speaking, unsolvable. The problem without initial conditions is investigated for this system. Proof is given of the uniqueness of the generalized solution of (1) in classes of functions which can definitely increase, given $|\mathbf{x}| \rightarrow \infty$ and given $\mathbf{t} \rightarrow 0$. A definition of the generalized solution is given, as well as an exact formulation of the uniqueness theorem. It is shown that the constraints imposed on the admissible increase of the generalized solution are exact. A subsequent article will deal with the question of the solvability of system (1) in the uniqueness classes found.

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KALASHNIKOV, G. A., Kalinin State Pedagogic Institute, Kalinin

"Training in the Exercise of Notor Functions Under Dangerous Conditions"

Moscow, Teoriya i Praktika Fizicheskoy Kul'tury, Vol 34, No 1, Jan 71, pp 23-25

Abstract: Exercise of physical ability to the fullest extent in athletics depends on decisiveness and courage under conditions that verge on the critical or dangerous. In the literature on the training of athletes, principal attention is paid to the development of motor functions, while the development of will power and of the ability to overcome fear is disregarded, although training under dangerous conditions with the latter aim in view is extensively applied. In tests that have been conducted, it was established that the speed plus effort reaction, as indicated by the distance over which a jump was made, was greater for cyclists who were required to jump over an uncovered 1/3

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

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KALASHNIKOV, G. A., Teoriya i Praktika Fizicheskoy Kul'tury, Vol 34, No 1, Jan 71, pp 23-25

hole in the ground 1 m wide and 0.5 m deep after cycling down an incline that ended in a 45° rise 2.5 m long than for cyclists who jumped over the same hole after it had been covered. The pulse frequency of cyclists jumping over the open hole was on the average 126+3 per min vs. 116+1 per min for cyclists jumping over the covered hole. Under dangerous conditions (open hole) the motor and autonomic reactions of the cyclists were increased in intensity vs. those observed when the same task was performed under less dangerous conditions (covered hole). The greater the experience of the cyclists, the smaller was the difference between the jump distances and pulse frequencies under the two sets of conditions. In tests carried out on girl gymnasts 11-12 yrs old, it was established that bending backwards over a bench under dangerous conditions, with the bench placed on a support 120 cm high, resulted in a lower angle of bending (greater distance between the hands and the heel of the supporting foot, ensuring better equilibrium) required a longer time, and was accompanied by a higher pulse frequency as compared with 2/3

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

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KALASHNIKOV, G. A., Teoriya i Praktika Fizicheskoy Kul'tury, Vol. 34, No 1, Jan 71, pp 23-25

the same exercise carried out under safer conditions on a bench placed on the floor. In similar tests carried out on women gymnasts (candidates for the grade of master of sports), the angle of bending and pulse beat during performance on a high and low bench also differed, but were closer together than for the young girls. Considerable differences were found for the women gymnasts, however, in bending over a high bar as compared with bending on the floor and under other conditions involving different degrees of danger. With increasing proficiency in the exercises acquired by training, the extent to which the body was bent under dangerous conditions increased (the stiffening induced by vear and constituting a protective reaction decreased). On the basis of results obtained in such tests, ways will be found of developing the will power and physical ability of athletes performing under dangerous conditions.

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TITLE--PHARMACOGNOSTIC STUDY OF LEUCOJUM VERNUM -U-

AUTHOR-(02)-KALASHNIKOV, I.D., SAVICHEVA, M.V.

ECUNTRY OF INFO--USSR

SOURCE--FARMATSIYA (MOSCOW) 1970, 19(1), 26-32

DATE PUBLISHED ---- 70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES, CHEMISTRY

TOPIC TAGS --- PHARMACOGNOSY, ALKALOID, THIN LAYER CHROMATOGRAPHY

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/0141

STEP ND--UR/0466/70/019/001/0026/0032

CIRC ACCESSION NO--APO135638

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

	UNCLASSIFIED PROCESSING DATE—13NGV70 CIRC ACCESSION NO—APOI35638 ABSTRACT/EXTRACT—(U) GP-O— ABSTRACT. THE ANATOMICAL STRUCTURE OF L. VERNUM AS WELL AS QUANT. AND QUAL. COMPN. OF ALKALDIOS WAS STUDIED AT THE END OF FLOWERING PERIOD. THE FOULDWING CHARACTERISTICS WERE FOUND: PEDUNCLE PARENCHYM HAD AN AERENCHYM PATTERN, LEAF MESOPHYL CONTAINED LARGE AIR CONCEPTACLES, EPIDERMIS OF ALL ORGANS WAS BUILT UP BY PROSENCHYME TYPE CELLS, KAFIDES WERE PRESENT IN ALL ORGANS EXCEPT ROOTS, AND PRIMARY STRUCTURE OF ROOTS WAS TRI AND TETRARCHIC. 0.32 AND 0.45PERCENT OF ALKALDIDS WERE FOUND IN THE ABOVE AND UNDERGROUND PARTS OS PLANTS RESP. 6 ALKALDIDS WERE DETECTED BY THIN LAYER CHROMATOG.; 3 OF THEM WERE IDENTIFIED AS LYCORINE, GALANTHAMINE AND TAZETTINE. FACILITY: L'VOV. MED. INST., LVOV, USSR.	
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And Applications		
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UDC: 544.543+547.944/94

KALASHNIKOV, I. D., L'vov Medical Institute, L'vov, Ministry of Health Ukrainian

"Alkaloids of Galanthus Nivalis"

Tashkent, Khimiya Prirodnykh Soyedineniy, No 3, 1970, p 380

Abstract: Alkaloids of the epigeal and subsurface parts of G. nivalis L. collected in 1968 in the oak forest near L'vov in the mass flowering period were studied. From the epigeal part (leaves with flower stalks and flowers), chloroform extraction yielded 0.41% total alkaloids, but from the subsurface part (rhizome with roots) extraction with 2% sulfuric acid solution yielded 38% (of weight of absolutely dry plant matter). Treatment of total alkaloids from epigeal and subsurface parts with acetone yielded, respectively, 0.016 and 0.023% licorin (of weight of dry matter), identified by thin-layer chromatography. Chromatography of total alkaloids from the subsurface part yielded 0.059% ha anthamine, 0.09% tacettin, 0.060 nivalidin, and 0.030% narvedin; from the epigeal part -- 0.058% halanthamin, 0.048 nivalidin, 0.062 hyppeastrin, and 0.028% narvedin.

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1/2 037 UNCLASSIFIED PROCESSING DATE--230CT70
TITLE--DESORPTION OF GASES DURING THE PROTON IRRADIATION OF METALS AND
METAL METALLIC FILM SYSTEMS -UAUTHOR-(03)-KATRICH, N.P., KALASHNIKOV, L.N., KOSIK, N.A.

COUNTRY OF INFO--USSR

SOURCE--AT. ENERG. 1970, 28(1), 28-32

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY, MATERIALS

TOPIC TAGS--METAL FILM, IRRADIATION, NICKEL PLATING, TITANIUM, PROTON

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1997/1562

STEP NG--UR/0089/70/028/001/0028/0032

CIRC ACCESSION NO--APO120341

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

PROCESSING DATE--230CT7 UNCLASSIFIED : 2/2 037 CIRC ACCESSION NO--APO120341 ABSTRACT. IN THE BOMBARDMENT OF TI, OF NI, ABSTRACT/EXTRACT--(U) GP-0-AND OF 4 NI COATED TI FILMS, THE LAST HAVING NI THICKNESSES OF 6 TIMES 10 PRIME NEGATIVES 1.2 TIMES 10 PRIME NEGATIVES, 1.6 TIMES 10 PRIME NEGATIVES, AND 2.6 TIMES 10 PRIME NEGATIVES CM, RESP., BY 15 KEV H PRIM POSITIVE IONS (60 MU A BEAM), THE ION IMPLANTATION COEFFS, ETA WERE 0.89, 0.25, 0.70, 0.46, 0.24, AND 0.23, RESP.: ETA INCREASED WITH INCREASING H PRIME POSITIVE ION ENERGY, AND THE RESP. VALUES FOR 35 KEV H POSITIVE IONS WERE 0.95, 0.33, 0.95, 0.94, 0.85, AND 0.55. FOR TI, NI, AND TI COATED WITH THE 6 TIMES 10 PRIME NEGATIVES CM NI FILM, THE DESCRPTION OF GASES (DISSOLVED IN THE METAL) DURING THE BOMBARDMENT WIT H PRIME POSITIVE IONS WAS SUBSTANTIAL, E.G. THE DESORPTION COEFFS. FOR THESE 3 MATERIALS WERE 1.12, 1.0, AND 0.6, RESP., IN THE CASE OF BOMBARDMENT WITH 10 PRIME15 IONS (1T DECREASED TO SIMILAR TO 0.25 FOR. ALL 3 MATERIALS WHEN THE NO. OF IONS WAS INCREASED TO 10 PRIME17-10 PRIMEIS); FOR TI COATED WITH THE THICKER NI FILMS, BETA WAS NOT GREATER THAN 0.1 AND WAS INDEPENDENT OF THE NO. OF IONS. PRESUMABLY. THE DESORPTION OF GASES FROM THE BULK OF THE METAL TAKES PLACE BY DIFFUSION ALONG THE H PRIME POSITIVE TRACKS.

TINCLASSIFIED

Plant Pathology

USSR

UDC 616.9:614.4

KALASFINIKOV, K. YA., Candidate of Agricultural Sciences

"Biological Significance of Latent Smut Infection of Plants"

Moscow, Doklady Vsesoyuznoy Ordena Lenina Akademii Sel'skokhozyaystvennykh Nauk imeni V. I. Lenina, No 7, Jul 71, pp 17-19

Abstract: The damaging effect of latent smut infection on the wheat yield and methods of controlling these infections were studied. Ten varieties of spring wheat and five of winter wheat were used in the investigations, carried out from 1931 to 1954. A table was compiled indicating losses incurred from smut on an individual farm, on the farms of a rayon, oblast, or republic, and even in the USSR as a whole. In most cases the infection begins at the seedling stage; the parasite penetrates and remains there in a concealed state. This studies also established a biologically significant characteristic of latent smut infection: in the course of the pathogenic process, it is the least smut-resistant plants that suffer the greatest damage, indicating a process of natural selection of plants resistant to smut. The agents of latent smut are considerably less aggressive than are the races inducing full and open infection. The latent races therefore readily subject to control by the usual agrotechnical methods used in the treatment of wheat for 1/2

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KALASHNIKOV, K. YA., Doklady Vsesoyuznoy Ordena Lenina Akademii Sel'skok-hosymystvennykh Nauk imeni V. I. Lenina, No 7, Jul 71, pp 17-19

smut control. Another control method is natural selection, in which smutresistant wheat varieties gradually become dominant, and the plants more
susceptible to smut infection are gradually eliminated. This method, however,
is not completely effective due to the constant changes in the smut races,
with the result that some of the smut-resistant varieties of grain become
susceptible to the infection. At best, only a balance between the development of smut-resistant varieties of plants and newly developing races of
smut can be attained under these conditions.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

USSR

UDC: 632.95

KALASHNIKOV, K. Ya., All-Union Institute of Flant Protection

"A Method for Treating Crop Seeds Before Planting"

USSR Author's Certificate No 25h9h7, filed h June 68, published 2 Apr 70 (from RZh-Khimiya, No 23, 10 Dec 70, Abstract No 23 No N7h2 P by T. K. Yudovskaya)

Translation: The method involves disinfecting the seeds with chemical preparations (e.g., granosan /ethylmercuric chloride/ or panogen) in a foamy state. This saves 10% of the preparations.

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UDC: 632.951:633.2

KALASHNIKOV, K. YA., and FEDOROVA, M. N., Pushkin Scientific Research Base, All-Union Institute of Plant Protection, Leningrad, All-Union Academy of Agricultural Sciences imeni V. I. Lenin

"Fungicide Treatment of Fodder Grass Seeds"

Moscow, Khimiya v Sel'skom Khozyaystve, Vol 8, No 4 (78), Apr 70, pp 44-46

Abstract: The authors studied 50%-TMTD (tetramethylthiuram disulfide) and granozan in dry, liquid, and water soluble form as agents for funcicide treatment of seeds. They concluded that TMTD should be used in treating seeds of fodder grass, timothy grass, fescue grass, collective fodder, canary grass, and foxtail. The recommended doses are: 3 gm of a 50% preparation and 2 gm of an 80% preparation per kg of seeds. Standard granozan in a dose of 1-1.5 gm/kg may be used to digest seeds of fodder grass by the dry method. Digestions even 6 months prior to seeding shows no detrimental effect on the seeds.

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1/2 012 UNCLASSIFIED TITLE--DISINFECTION OF FODDER GRASS SEEDS -U-

PROCESSING DATE--04DEC70

AUTHOR-(02)-KALASHNIKOV, K.YA., FEDOROVA, M.N.

COUNTRY OF INFO--USSR

SOURCE-KHIM. SEL. KHOZ. 1970, 8(4), 284-6

DATE PUBLISHED-----70

SUBJECT AREAS -- AGRICULTURE, BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--AGRICULTURE CROP SEED, FUNGICIDE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY FICHE NO---FD70/605002/C07 STEP NO--UR/0394/70/008/004/0284/0286

CIRC ACCESSION NO--APO139433

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

2/2 012 UNCLASSIFIED PROCESSING DATE--040EC70 CIRC ACCESSION NO--APO139433 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. IN FIELD EXPTS., DRY SEED DRESSING WITH GRANDSAN (I) AND SOPERCENT THIRAM (II) IMMEDIATELY OR 109 MONTHS BEFORE SOVING STIMULATING THE GROWTH AND DEVELOPMENT OF MEADOW FESCUE (FESTUCA PRATENSIS), TALL FESCUE (F. ARUNDINACEA), DECHARD GRASS IDACTYLIS GLOMERATA), CANARY GRASS (PHALARIS CANARIENSIS), AND MEADOW CANARY GRASS, AND MEADOW FOXTAIL WERE HIGHER WITH II, WHEREAS THOSE OF MEADOW FESCUE AND KENTUCKY BLUEGRASS (POA PRATENSIS) WERE HIGHER WITH I. I AND II HAD THE SAME EFFET ON THE SEED YIELD OF TIMOTHY (PHLEUM PRATENSE). EARLY SEED DRESSING DID NOT DEGREASE THE GERMINATING CAPACITY OF THE FOODER GRASS SEEDS. THE RECOMMENDED DOSES ARE 1-1.5 G AND 3 G-KG SEEDS FOR I AND II, RESP. FACILITY: NAUCH .- ISSLED. BAZA VIZR, PUSHKING, USSR.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

USSR

UDC 531.1.04

KATRICH, N. P., KALASHNIKOV, L. N., and KOSIK, N. A.

"Gas Descrption in Irradiation of Metals and Metal-Metallic Film Systems With H ! Ions"

Moscow, Atomnaya Energiya, Vol 28, No 1, Jan 70, pp 28-32

Abstract: The article describes results of a study of gas describen from titanium and stainless steel and the following systems: titanium-nickel film, titanium-platinum film, stainless steel-platinum film, stainless steel-nickel film, stainless steel-stainless steel (film), stainless steel-nickel film, stainless steel-stainless steel (film), with the gas describent resulting from the bombardment of the metals and metal-metallic film systems with fast HI ions. Data are also and metal-metallic film systems with fast HI ions. Data are also given on a study of the dependence of the hydrogen ion trapping coefficient on the energy of the bombarded particles for titanium, nickel, and titanium coated with a nickel film of varying thickness. A vacuum was created in the measurement chamber by a system of helium and hydrogen condensation pumps.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

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KATRICH, N. P., et al., Atomnaya Energiya, Vol 28, No 1, Jan 70, pp 28-32

It was found that the desorption coefficient is determined by the desorption of gases adsorbed on the surface (as indicated by the high desorption coefficient for titanium, nickel, and stainless steel during the initial irradiation period) and by the desorption of gases dissolved in the volume of the metals. Experiments staged during irradiation of targets at 300 and 78° K show that desorption of gases dissolved in the volume of the metals occurs mainly as a result of thermal channel diffusion along the tracks of the fast ions. The desorption coefficient does not exceed 5-6 percent for any metal-metal-lic film combination. The titanium-nickel film (platinum film) combination has the advantage of a high trapping coefficient if the film thicknesses satisfy the condition $L \leq R$, where R is the mean path depth of the H ions.

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1/2 023

UNCLASSIFIED

PROCESSING DATE--020CT70

AUTHOR--KALASHNIKOV, N.

COUNTRY OF INFO--USSR

SOURCE-- VYSHKA, JUNE 17, 1970, P 3, COLS 1-6

TITLE--GROUND SERVICES OF SPACE FLIGHTS +U-

DATE PUBLISHED--17JUN70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES, NUCLEAR SCIENCE AND STECHNOLOGY
TOPIC TAGS-SPACE RADIATION, ANTIRADIATION DRUG, SPACECRAFT GROUND CONTROL

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—1989/0877

STEP NU--UR/9059/70/000/000/0003/0003

CIRC ACCESSION NO-ANDIO7406

UNCLASSIFIFD

PROCESSING DATE--020CT70 UNCLASSIFIED 2/2 CIRC ACCESSION NO--ANOIO7406 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE ARTICLE GIVES A VERY GENERAL DESCRIPTION OF GROUND SUPPORT SERVICES OF THE MANNED SPACE FLIGHTS CONTROL CENTER -TSENTR UPRAVLENIYA PILOTIRUYEMYMI POLETAMI- SUCH AS THE BALLISTICS TEAM -GRUPPA BALLISTIKI-, AND THE MEDICAL SERVICE -MEDITSINSKAYA SLUZHBA-, THE ANALYSIS TEAM -GRUPPA ANALIZA-. ASTRONAUTS A. LEDNOV, V. SHATALOV, A. FILIPCHENKO, YE. KHRUNDV, V. BYKOVSKIY, AND V. BORBATKO TAKE PART IN FLIGHT CONTROL OPERATIONS. THE DUTY OF ONE OF THE SERVICES IS TO ASSURE THE RADIATION SAFETY OF THE FLIGHT. ITS MEMBERS ARE RADIOLOGISTS AND RADIOBIOLOGISTS. TWO WEEKS PRIOR TO LAUNCH TIME, THE ASTRONAUTS ARE GIVEN MEDICATIONS WHICH INCREASE THEIR RADIATION RESISTANCE. THE MEDICAL KIT CARRIED IN THE SHIP CONTAINS PREPARATIONS WHICH PROTECT FROM RADIATION, ALSO SOME ANTIRADIATION PHARMACOLOGICAL MEANS.

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AUTHOR --

KALASHNIKOV, N., SCIENCE COMMENTATOR

TITLE--

AN ENGINEERING RESEARCH LABORATORY IN SPACE

NEWSPAPER-- GUDOK, JUNE 12, 1970, P 4, COLS 3-8

ABSTRACT-- ACCORDING TO KALASHNIKOV, THE BEHAVIOR OF VARIOUS STRUCTURAL COMPONENTS OF THE "SOYUZ-9" HAS BEEN THE OBJECT OF THE ASTRONAUTS ATTENTION. THE SURFACE CONDITION OF OBSERVATION WINDOWS WAS CAREFULLY OBSERVED, THE ABSOLUTE MOISTURE CONTENT WAS DETERMINED IN VARIOUS SECTIONS OF THE SHIP, S LIVING QUARTERS, AND THE DISPLACE-MENT OF VARIOUS STRUCTURAL COMPONENTS IN RELATION TO EACH OTHER, CAUSED BY THE INTERNAL PRESSURE, WAS INVESTIGATED.

REEL/FRAME 19871193

USSR.

UDC 621.372.81.09

GORDIYENKO, V. 1., KALASHNIKOV, N. I., GONCHARSKIY, V. N., L'vov

"Experimental Studies of a Single-Conductor Transmission Line for a TE Surface Wave in the 1-10 kHz Band"

Kiev, Otbor i Peredacha Informatsii, Resp. Mezhved. Sb., No 28, 1971, pp 105-107

Abstract: The conditions of propagation of a TE surface wave along isolated cylindrical conductors were checked out by experiments providing for determination of the effect which the radius of the wire and the permeability of the material have on propagation of a TE wave. The experimental procedure is described and a block diagram is given together with the principal characteristics of the transmitting and receiving equipment. The theoretical analysis published by N.A. Armand (Radiotekhnika i elektronika, 1959, 4, 10) agrees with the experimental data for the systems studied. Three figures, bibliography of ten titles.

USSR

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UDC 621.391.82:621.317.743.4

KALASHVIKOV, N. I.

"Problem of Effective Utilization of the Orbit of Stationary Earth Satellites"

Tr. Mosk. elektrotekhn. in-ta svyazi (Works of Moscow Electrotechnical Communications Institute), 1970, vyp. 1, pp 65-70 (from RZh-Radiotekhnika, No 9, Sep 70. Abstract No 9Al02)

Translation: This article contains an investigation of noise created by stationary artificial earth satellites for ground radio relay lines. Beginning with the allowable MKKR [International Radio Consultative Committee] recommendations for noise levels, the minimum angular distance between artificial earth satellites is determined. There are three illustrations and a three-entry bibliography.

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USSR

UDC: None

KALASHNIKOV, N. P. and KOPTELOV, E. A.

"Theory of the Shadow Effect in the Scattering of Fast Charged Particles in Fine Single Crystals"

Leningrad, Fizika Tverdogo Tela, No 6, 1973, pp 1668-1673

Abstract: The shadow effect is here defined as a reduction in the output of particles emitted from a crystal in the direction of tight packing, where the angular distribution of the particles leaving the crystal is definitely anisotropic. This effect is analyzed in this paper for the elastic scattering of fast charged particles at large angles in a single crystal whose thickness is specified between given limits. The thickness of the crystal is such that the effect of channelization on the motion of the particles can be neglected. The amplitude of the scattering, the minimum output in the direction of the crystallographic axis, and the angular anisotropy of the shadow effect are investigated. It is found that the theoretical results of this article agree closely with the experimental data of such studies. The authors thank M. I. Ryazanov and A. F. Tulinov for their discussions.

USSR

UDC 621.771.011

NIKOLAYEV, V. A., and KALASHNIKGV, P. P.

"Investigating the Distribution of Contact Stresses During Rolling Without Widening Using Optical Modelling"

Plasticheskaya Deformatsiya Metallov i Splavov, Moscow, No 64, "Metallurgiya," 1970, pp 249-258

Translation: The article shows the similarity in the distribution of specific pressures during rolling with and without widening under the same conditions (where R/H_{ave} : Beta/alpha; l_d/H_{ave} are equal), as well as the predominating influence of unevenness in the distribution of normal pressures in the deformation area on the magnitude of maximum shear stresses in the surface layers of rolls. Seven figures and two tables.

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USSR

UDC 621.385.64 (088.8)

KALAGHNIVOW V.C., MEDVEDEVA, L.I., PUSHKAREV, A.G.

*M-Type Device"

USSR Author's Certificate No 278905, filed 7 August 1969, published 24 May 1971 (from RZh-Elektronika i yeye primeneniye, No 3, March 1972, Abstract No 3A70P)

Translation: A M-type device is proposed, e.g., a coaxial or a coaxially inverted magnetron with high-speed retuning, which contains a stabilizing cavity (C) and a rotary retuning element located inside the stabilizing C and which has a slot. With the object of increasing the range of retuning, additional C are located in the side well of the stabilizing C, with the number and size of the additional C equal to the number and size of the slots on the rotary retuning element.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

USSR

UDC: 621.385.64

KALASHNIKOV, V. G., MEDVEDEVA, L. I., PUSHKAREV, A. G.

"An M-Type Instrument"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 26, 1970, Soviet Patent No 278905, Class 21, filed 7 Aug 69, p 70

Abstract: This Author's Certificate introduces an M-type instrument such as a co-axial or coaxially inverse magnetron with high-speed adjustment. The instrument contains a stabilizing resonator and a rotating tuning element which has slots and is located inside the stabilizing resonator. As a distinguishing feature of the patent, the adjustment range is extended by placing additional resonators in the end wall of the stabilizing resonator. The number and sizes of these additional resonators are equal to the number and sizes of the slots on the rotating tuning element.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

USSR UDC: 8.74

BROVCHENKO, L. A., KALASHNIKOV, V. I., PISAREV, A. P.

"Determination of Distinctive Features by the Method of Random Walks"

Vestn. Khar'kov. politekhn. in-ta (Khar'kov Polytechnical Institute Herald), 1972, No 61, pp 24-27 (from RZh-Kibernetika, No 6, Jun 72, Abstract No 6V568)

Translation: The paper deals with the feasibility of using random walks over a receptor field to isolate informative features in pattern recognition. Organization of the random-walk process is described, and the results of modeling are presented. Authors' abstract.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

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USSR

GAVRILKO, V. I., GERASIMENKO, R. T., KALASHNIKOV, V. I., KLIMENKO, A. N.

"Input of Analog Information to the M-220 Computer"

Vychis1. Mat. i Vychis1. Tekhn. [Computational Mathematics and Computer Equipment -- Collection of Works], No 2, Khar'kov, 1971, pp 151-156, (Translated from Referativnyy Zhurnal, Kibernetika, No 2, 1972, Abstract No 2 V704 by the author's).

Translation: An automatic system for input of analog information to a digital computer is described. The characteristics of the apparatus are presented. The operating mode of the M-220 in the complex and the method of writing of program for information input are described. A method is indicated for accounting for the instability of the rate of movement of the magnetic tape during input.

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USSR

UDC 547.26:118

RALASHNIKOV, V. P., Lvov State Medical Institute, Lvov, Ministry of Health USSR

"Heterocyclic Dithiophosphates. VI. Reaction of Pyrocatechin With Phosphorus Pentasulfide in the Presence of Triethylamine"

Leningrad, Zhurnal Obshchey Khimii, Vol 40, No 9, Sep 70, pp 1954-1956

Abstract: To a suspension of phosphorus pentasulfide in anhydrous toluene pyrocatechine was added with stirring followed by more toluene. Finally, triethylamine was added dropwise. An exothermic reaction took place for 30-40 min, following which the mixture was heated to 80-95° for another 30 min and cooled, yielding two separated layers in the vessel. The lower layer was dissolved in methanol, yielding the colorless triethylammonium salt of 2-mercapto-2-thione-4,5-benzo-1,3,2-dioxaphospholame (I), m.p. 137-138°. Methylation of (I) by methyl iodide in anhydrous benzene gave 2-methylthio-2-thione-4,5-benzo-1,3,2-dioxaphospholame, n.p. 45°. Acylation of (I) with p-nitrobenzoyl chloride gave a mixed anhydride of p-nitrobenzoyl and bicyclic dithiophosphoric acid.

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

USSR.

KALASHNIKOV P.

"Kinetics of Hot Electrons in Quantizing Magnetic Fields. II. Diffusion Approximation"

Moscow, Teoreticheskaya i Matematicheskaya Fizika, Vol 6, No 6, Feb 71, pp 279-293

Abstract: Based on a nonequilibrium statistical operator, a system of equations is obtained for the balance of density of momentum and number of particles in an energy space, defining the kinetics of hot electrons in strong, crossed electrical and magnetic fields. For the case of quasi-elastic scattering, the equations obtained are converted to differential equations describing the diffusion of electrons in energy space and are integrated, in the lowest approximation, with respect to the ratio of the relaxation frequency of the transverse momentum to the frequency of cyclotron motion.

1/1

Public Health, Hygiene and Sanitation

USSR

KALASHNIKOV, V. P., Candidate of Biological Sciences, YAKUBOVA, R. A., Candidate of Medical Sciences, and PAK, L. V., Junior Scientific Associate, Laboratory of Radiobiochemistry and Circulation of Pesticides in the Environment, and Laboratory of Hygiene and Toxicology, Uzbek Scientific Research Institute of Sanitation, Hygiene, and Occupation Diseases

"Study of the Functional State of the Thyroid Gland With Radioactive I 131 Affer Chronic Intoxication With Small Boses of Methylmercaptophos, Hexachloran, and Kilval"

Tashkent, Meditsinskiy Zhurnal Uzbekistana, No 10, Oct 70, pp 118-121

Abstract: The effect of individual insecticides and their mixtures on the functional state of the thyroid gland in rats was studied. After the rats were subjected to intra-abdominal intoxication with hexachloran and methylmercaptophos, a slight hyperfunction of the thyroid gland was observed. When the rats were subjected to a mixture of the two insecticides, sharply increased hyperthyroid function was observed. The effects were enhanced when the doses administered were increased. Kilval was introduced by inhalation over a period of 4 months at concentrations from 0.88 to 2.95 1/2

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

KALASHNIKOV, V. P., et al, Meditsinskiy Zhurnal Uzbekistana, No 10, Oct 70, pp 118-121

mg/m³. Introduced in concentrations of 0.88 to 1.7 mg/m³, Kilval had no effect on the I¹3¹ absorption of the thyroid gland for 6 hr; during the first 3 days a slight (4-5 percent) drop in I¹3¹ absorption was observed in comparison with the controls. At concentrations of 2.95 mg/m³, Kilval produced a slight hyperthyrosis with an increase in I¹3¹ in the thyroid of 9-14 percent. Chronic introduction of small quantities of the pesticides studied into the organism either intraventricularly or through the lungs affects the functional state of the thyroid gland (hypo- or hyperthyrosis). The effect depends on the chemical structure of the pesticides, their daily dose or concentration, and whether they are present in combination or alone.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

"APPROVED FOR RELEASE: 07/20/2001

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USSR

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KALASHNIKOV, V.P., SHEVKCLOVICH, YU.V.

"Method And Device For Registration Cf Current-Voltage Characteristic And The

Other 1 peredacha inform. Resp. mezhved. sb. (Selection And Transmission Of Information. Republic Interdepartmental Gollection), 1970, No 24, pp 115-118 (from RZh-Elektronika i yeye primeneniye, No 10, October 1970, Abstract No 10A164)

Translation: The advantages are considered of the dynamic method of investigating the cutput characteristics of thermionic converters as compared with static methods. The principal circuit is presented of a device for taking down current-voltage characteristics by the pulse method. The precision of taking down the characteristics amounts to ~ 10 percent. The simplicity and convenience is noted of working with the sid of the device described, 2 ref. S.R.

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- 73 --

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

UNCLASSIFIED

PROCESSING DATE--300CT70

TITLE-DERIVATION OF THE NONEQUILIBRIUM STATISTICAL OPERATOR FORM THE EXTREMUM OF THE INFORMATION ENTROPY -U-

AUTHOR-(02)-ZUBAREV, D.N., KALASHNIKOV, V.P.

PASSED BERTHAMAN

CCUNTRY OF INFO--USSR

022

1/2

SOURCE-PHYSICA (NETHERLANDS), VOL. 46, NO. 4, P. 550-4 (1970)

DATE PUBLISHED----70

SUBJECT AREAS-PHYSICS

TOPIC TAGS--STATISTIC ANALYSIS, ENTROPY, THERMODYNAMIC EQUILIBRIUM

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1992/0488

STEP NO--NE/0000/70/046/004/0550/0554

CIRC ACCESSION NO--APOILI681

----UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

2/2 022 UNCLASSIFIED PROCESSING DATE--300CT70 CIRC ACCESSION NO--APOILL681 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. IT IS SHOWN THAT THE NONEQUILIBRIUM STATISTICAL OPERATOR WHICH WAS OBTAINED PREVIOUSLY CAN BE DERIVED FROM THE REQUIREMENT THAT THE INFORMATION ENTROPY OF THE NONEQUILIBRIUM SYSTEM MUST HAVE AN EXTREMUM WITH A SET OF ADDITIONAL CONDITIONS. THE LATTER CONDITIONS IMPLY THAT THE AVERAGE VALUES OF DYNAMICAL VARIABLES WHICH DETERMINE THE MACROSCOPIC STATE OF THE SYSTEM ARE GIVEN AT ANY MOMENT OF THE PAST T SUB1 IN THE TIME INTERVAL INFINITE IS MUCH LESS THAN T SUB1 IS MUCH LESS THAN T. FACILITY: SCI. USSR, MOSCOW. UNCLASSIFIED

1/2 020

PROCESSING DATE-- 13NOV70

TITLE--CONSTRUCTION OF STATISTICAL OPERATORS FOR NONE WILLIBRIUM PROCESSES AUTHOR-(02)-ZUBAREV, D.N., KALASHNIKOV, V.P.

COUNTRY OF INFO--USSR

SOURCE-TEORETICHESKAYA I MATEMATICHESKAYA FIZIKA, 1970, VOL 3, NR 1, PP

DATE PUBLISHED----70

SUBJECT AREAS--PHYSICS, MATHEMATICAL SCIENCES

TOPIC TAGS -- MATHEMATIC OPERATOR, STATISTIC ANALYSIS, HAMILTONIAN, THERMODYNAMIC ANALYSIS, KINETIC EQUATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/1031

STEP NO--UR/0646/70/003/001/0126/0134

CIRC ACCESSION NO--APO130066

UNCLASSIFIED

2/2 020 CIRC ACCESSION NO--APO130066 UNCLASSIFIED PROCESSING DATE--13NOV70 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. IT IS SHOWN THAT THE NONEQUILIBRIUM STATISTICAL OPERATOR (NSO), WHICH IS VALID FOR A DESCRIPTION OF A SYSTEM IF TIME INTERVALS ARE MUCH LARGER THAN THE FORGETTING TIME OF THE INITIAL DISTRIBUTION, CAN BE CONSTRUCTED AS THE INVARIANT PART OF THE JUASI EQUILIBRIUM STATISTICAL OPERATOR IN RELATION TO THE EVOLUTION OF A SYSTEM WITH GIVEN HAMILTONIAN H. GENERAL FORMULA ARE OBTAINED FOR THIS FORM OF THE NSO, WHICH RELATE THERMODYNAMIC COORDINATES AND THERMODYNAMIC FORCES: THE GENERAL EXPRESSION FOR THE ENTROPY PRODUCTION AND GENERALIZED KINEFIC EQUATIONS DESCRIBING THE TIME EVOLUTION OF THERMODYNAMIC VARIABLES ARE ALSO OBTAINED. IT IS SHOWN THAT THIS SCHEME OF THE THEORETICAL DESCRIPTION OF NGNEQUILIBRIUM PROCESSES IS EQUIVALENT UP TO SECOND ORDER TERMS TO THE METHOD OF QUASI INTEGRALS OF MOTION PROPUSED BY ONE OF THE AUTHORS (1). MATEMATICHESKIY INSTITUT IM. V. A. STEKLOVA AKADEMII NAUK SSSR. FACILITY: UNCLASSIFIED

USSR -

UDC: 519.2

BUSLENKO, N. P., KALASHNIKOV, V. V., KOVALENKO, I. N.

"Lectures on the Theory of Complex Systems"

Moscow, Lektsii po teorii slozhnykh sistem (cf. English above), "Sov. radio", 1973, 439 pp, ill. 2 r. 7 k. (from RZh-Kibernetika, No 5, May 73, abstract No 5V277 K [annotation])

Translation: The book attempts to give a unified viewpoint in presentation of problems of constructing mathematical models, quantitative and qualitative analysis of such models for a class of objects which generalizes the types of complex systems most extensively used in technology and the national economy.

The introductory chapters (1-3) discuss the idea of a complex system, its functional process, and also the functional characteristics and indices utilized in the design and operation of complex systems. Chapters 4-8 and 16 give an idea of present schemes of mathematical description of complex systems and their modeling. The remaining chapters of the book present some methods of quantitative and qualitative analysis of complex systems,

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USSR

BUSLENKO, N. P. et al., Lektsii po teorii slozhnykh sistem, Moscow, "Sov. radio", 1973

investigate transient and steady-state conditions of operation of various structural types of systems, and also deal with questions of stability and estimates of their characteristics with respect to experimental data. The book is written for schentists, engineers, graduate students and upperclassmen working in the field of systems analysis and development of automated control systems.

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26 -

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

UDC 621.371:538.569.4

ABLYAZOV, V. S., BASHARINOV, A. Ye., GORELIK, A. G., GORDEN, Z. I., KALASHNIKOV, V. V., KUTUZA, B. G., HITNIK, L. M., PENYAZ', L. A., FROLOV, A. V., and FROLOV, Yu. A.

"Absorption and Radiation of the Atmosphere in the 0.5-10 cm Range"

Moscow, V sb. X Vses. konf. po rasprostr. radiovoln. Tezisy dokl. (Tenth All-Union Conference on the Propagation of Radio Waves; Report Theses--collection of works) "Nauka," 1972, pp 3-7 (from RZh--Radiotekhnika, No 10, 1972, Abstract No 10A309)

Translation: The method and the results of measuring the absorption and radiation of the atmosphere for waves of 0.5-10 cm and, in particular, in the absorption bands of oxygen and water vapor, are given. The measurements were made for the purpose of investigating the propagation of uhf waves under various meteorological conditions, which were recorded simultaneously with the radio measurements. Curves are given of the attenuation and radio brightness temperature for rain clouds. Two illustrations, bibliography of five. N. S.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

USSR

VDC 621.317.799:538.569.4

AKVILONOVA, A. B., GORELIK, A. K., KALASHNIKOV, V. V., KRYLOVA, M. S., KUTUZA B. G., KUKHARSKAYA, N. F., MITNIK, L. M., PUZANOV, V. A., and FROLOV, Yu. A.

"Measuring the Full Absorption in a Cloudless Atmosphere in the 0.55-0.59 Range"

Moscow, V sb. X Vses. konf. no rasprostr. radiovoln. Tezisy dokl. (Tenth All-Union Conference on the Propagation of Radio Vaves; Report Theses—collection of works) "Nauka," 1972, pp 8-11 (from RZh—Radiotekhnika, No 10, 1972, Abstract No 10A422)

Translation: Experimental data is given on the full absorption of radio waves in a cloudless atmosphere in the 0.55-0.59 cm range, with simultaneous recording of vertical profiles for temperature, pressure, and humidity at the observation point. Resume

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

USSR

UDC 519.2:62-50

KALASHNIKOV, V. V.

"Analysis of the Functioning of Complex Systems Using Qualitative Methods"

Moscow, Vopr. konkretn. sistemn. issled.—Sbornik (Problems of Specific System Analysis -- Collection of Works), 1970, pp 26-30 (from Referativnyy Zhurnal -- Matematika, No 6, June 71, Abstract No 6V257, by R. Liptser)

Translation: Problems of the regularity, probability-boundedness, and the random Markov process with discrete time are solved, along with a problem of finding part of the trajectories of these processes in a fixed region of phase space. The method of solving these problems is similar to the second Lyapunov method. It is shown that the solution of these problems can prove useful when investigating problems in queuing theory.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

UDC 519.217

KALASHNIKOV, V. V.

"Investigation and Estimation of Characteristics of Queueing System Using Analogues

Bol'shiye Sistemy. Massovoye Obsluzh. Nadezhnost' [Large Systems. Queueing. Reliability -- Collection of Works], Moscow, Nauka Press, 1970, pp 209-218 (Translated from Referativnyy Zhurnal Kibernetika, No. 4, April, 1971, Abstract No. 4 V53).

No Abstract.

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- 6 -

TIPLE—JEINT RADICTHERMAL AND RADAR MEASUREMENTS OF THE METEOROLOGICAL
PARAMETERS OF CLOUDS AND PRECIPITATION—U—
AUTHOR—(C4)—DASHARINOV, A.YE., GORELIK, A.G., KALASHNIKOV, V.V., KUTUZA,
B.G.
CCUNTRY OF INFO—USSR

SOURCE—IZVESTIYA AKADEMII NAUK SSSR, FIZIKA ATMOSFERY I OKEANA, VOL VI,
NO 5, 1970, PP 526-530

DATE PUBLISHED———70

SUBJECT AREAS—NAVIGATION, ATMOSPHERIC SCIENCES

TOPIC TAGS—AIMOSPHERIC CLOUD, ATMOSPHERIC PRECIPITATION, RADIOMETRY,
METEOROLOGIC RADAR, DRUPLET, RADIOSGNOE

CENTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY FICHE NO----FD70/605041/F02 STEP NU--UR/0362/70/006/005/0526/0530

CIRC ACCESSION NO--APO142759

UNCLASSIFIED

日常中的建立基础中间的特别 电电路电阻 医耳语

2/3 031 UNCLASSIFIED PROCESSING DATE--11DEC70 CIRC ACCESSION NO--APO142759 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. SIMULTANEOUS RADIOMETRIC AND RADAR OSSERVATIONS, COMBINED WITH OTHER METEOROLOGICAL MEASUREMENTS, AS DEMONSTRATED IN THIS ARTICLE, MAKE IT POSSIBLE TO DETERMINE THE MEAN LIQUID WATER CONTENT OF LIQUID DROP CLOUDS. IF THE TOTAL WATER CONTENT IS DETERMINED FROM RADIOMETRIC MEASUREMENTS AND RADAR IS USED IN MEASURING THE EXTENT OF THE DROPLET PART OF TH CLCUD, THE RATIO OF THESE VALUES WILL GIVE THE MEAN LIQUID WATER CONTENT OF THE DROPLET PART OF THE CLOUD IN THE DIRECTION OF MEASUREMENT BECAUSE THE RADIO EMISSION OF THE CRYSTALLINE PART OF THE CLOUD CAN BE NEGLECTED. WITH SIMULTANEOUS MEASUREMENTS OF ABSURPTION IN A CLOUD AT SEVERAL WAVELENGTH IT IS ALSO POSSIBLE TO ESTIMATE THE EFFECTIVE TEMPERATURE OF THE CLOUD. RADAR MEASUREMENTS, TOGETHER WITH RADIUSONDE DATA, GIVE THE TEMPERATURE DISTRIBUTION IN THE CLOUD AND REFINE THE EFFECTIVE TEMPERATURE. RADAR MEASUREMENTS OF THE DROP SIZE DISTRIBUTION CAN BE USED IN AN INTERPRETATION OF THE RADIO BRIGHTNESS TEMPERATURE OF RAIN. AND RADICMETRIC MEASUREMENTS WERE MADE IN 1966 AT PUSHCHINO USING THE RADIOTELESCOPE OF THE PHYSICS INSTITUTE AT WAVELENGTHS 0.8 AND 1.6 CM AND IN 1968 AT KIMRA USING A RADIO TELESCOPE OF THE CENTRAL AEROLOGICAL DESERVATORY (ANTENNA DIAMETER 3 M) AT THE WAVELENGTHS C.B TO 1.35 CM. THE TUTAL TIME OF CLOUD OBSERVATION WAS MORE THAN 120 HOURS. A RADAR SET IN THE 3-CM RANGE WAS USED. THE RADIOMETRIC AND RADAR OBSERVATIONS WERE ACCOMPANIED BY MEASUREMENTS OF THE METEUROLOGICAL PARAMETERS BY RADIOSUNGES. IN ADDITION, THE DROP SIZE DISTRIBUTION WAS MEASURED BY SAMPLING UN FILTER PAPER.

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THE RADIO EMISSION OF C	759 E OF THE LOWER CLOUD LOUDS WAS ASCERTAINED	BOUNDARY WAS DETERMINED AND AT WAVELENGTHS 0.8, 1.35
RATE. THE RESULTS OF A	LL THESE INTEGRATED O	T IN AZIMUTH AT A CONSTANT BSERVATIONS ARE GIVEN. THIS RADIOASTRONOMICAL AND RADAR EFFECTIVE IN THE STUDY OF
CLOUDS AND PRECIPITATII		
	UNCLASSIFIED	

UNCLASSIFIED PROCESSING DATE--18SEP70

TITLE--EFFECT OF HIGH PRESSURE ON THE CRYSTALLIZATION OF ARSENIC AND

SULFUR GLASSES -UAUTHOR-(05)-TIMOFEYEVA, N.V., VINDGRADOVA, G.Z., FEKLICHEV, YE.M.,

DEMBOVSKIY, S.A., KALASHNIKOV, YA.A.

COUNTRY OF INFO--USSR

SOURCE-DOKL. AKAD. NAUK SSSR 1970, 190(4), 902-4 (PHYS CHEM)

DATE PUBLISHED----70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--HIGH PRESSURE EFFECT. GLASS CRYSTALLIZATION, ARSENIC COMPOUND, SULFUR COMPOUND, X RAY ANALYSIS, GLASS STRUCTURE

CONTROL MARKING--NO RESTRICTIONS

OCCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1984/1575

STEP NO--UR/0020/70/190/004/0902/0904

CIRC ACCESSION NO--ATO100193

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

UNCLASSIFIED PROCESSING DATE--18SEP70
CIPC ACCESSION NO--ATO100193
ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE CRYSTN. OF AS SUB2 S SUB3
GLASSES WAS DETD. AT 30-70 KILOBARS AND UP TO 500DEGREES. AS SUB2 S
SUB3 CRYSTD. AT 250DEGREES AND 40-70 KILOBARS. X RAY PHASE ANAL. PROVED
THAT THE OBTAINING CRYST. AS SUB2 S SUB3 HAS THE SAME STRUCTURE AS THE
NATURALLY OCCURRING ORPIMENT (I). BETA AS SUB2 S SUB3 FORMED AT
400DEGREES. IT HAS A STRUCTURE DIFFERENT THAN I. AS SUB2 S SUB5 GLASS
(M. 190DEGREES) CRYSTD. AT GREATER THAN 250DEGREES AND 50-70 KILOBARS.
AS SUB2 S SUB5 HAS AN ORTHORHOMBIC STRUCTURE WITH A CONGRUENT TO 10.37,
B CONGRUENT TO 9.9, AND C CONGRUENT TO 8.66 ANGSTROM.

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--230CT70 1/2 017

TITLE CIRCULATION IN THE POSTERIOR REGION OF THE HYPOTHALAMUS AND IN THE CEREBRAL CORTEX IN REFLEX EFFECTS -U-

AUTHOR-KALASHNIKOV. YU.G.

COUNTRY OF INFO--USSR

SOURCE-BYULLETEN' EXSPERIMENTAL NOY BIOLOGII I MEDITSINY, 1970, VOL 69,

NR 5, PP 19-22

DATE PUBLISHED-----70

SUBJECT AREAS -- BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-BRAIN, BLOOD CIRCULATION, REFLEX, CEREBRAL CORTEX

CONTROL MARKING--NO RESTRICTIONS,

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1998/0368

STEP NO--UR/0219/70/059/005/0019/3022

CIRC ACCESSION NO--APOLZ1056

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

PROCESSING DATE--230CT70 UNCLASSIFIED 2/2 017 CIRC ACCESSION NO--APO121056 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. IN EXPERIMENTS ON CATS AND RABBITS STIMULATION OF MECHANDRECEPTORS OF THE GASTROINTESTINAL TRACT AND STIMULATION OF THE FEMORAL NERVE IN ALL CASES CAUSED AN INCREASED BLOOD SUPPLY TO THE POSTERIOR REGION OF THE HYPOTHALAMUS. THE ZONAL CIRCULATION IN THE SOMATOSENSORY AND VISUAL ZONES OF THE CEREBRAL CORTEX CHANGED IN A DIVERSE MANNER. CHANGES OF THE CIRCULATION IN THE POSTERIOR REGION OF THE HYPOTHALAMUS DEPEND NOT ONLY UPON FLUCTUATIONS OF THE SYSTEMIC ARTERIAL PRESSURE, BUT ALSO ON REFLEX EFFECTS ON THE VASCULAR TONE OF THIS CEREBRAL AREA. THE LATENT PERIOD OF CIRCULATION CHANGES IN THE POSTERIOR REGION OF THE HYPOTHALAMUS IN RESPONSE TO THE EMPLOYED EFFECTS IS SHORTER THAN IN THE SOMATOSENSORY AND VISUAL ZUNES FACILITY: INSTITUTE OF NORMAL AND OF THE CEREBRAL CORTEX. PATHOLOGICAL PHYSIOLOGY OF THE ACADEMY OF MEDICAL SCIENCES OF THE USSR. MOSCOW.

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

USSR

UDC 632.95

SEDOV, N. V., KALASHNIKOVA, G. N., and SEDOVA, N. V.

"Use of Ultrasound to Intensify Chemical Processes"

V sb. Khim. sredstva zashchity rast. (Chemical Protection of Plants -- collection of works), No 2, Moscow, 1972, pp 70-75 (from RZh-Khimiya, No 22, 25 Nov 73, Abstract No 22N549 by I Pil'menshteyn)

Translation: With $(CH_2NHCSSNH_1)_2$ as an example, it is shown that the reaction time with the use of ultrasound is much quicker than with mechanical mixing. Ultrasound permits considerable simplification of the apparatus of the process because instead of reactors with a revolving stirrer and stuffing-box seal, hermetic explosion proof apparatus that prevents CS_2 from penetrating into the working place can be used.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

1/2 007 UNCLASSIFIED

PROCESSING DATE--27NOV70

TITLE-PROBLEM OF PHASE TRANSITIONS IN THE UPPER MANTLE AND ITS CONNECTION

WITH THE EARTH'S CRUSTAL STRUCTURE -U-

AUTHOR-(OZ)-MAGNITSKY, V.A., KALASHNIKOVA, I.V.

COUNTRY OF INFO--USSR

SOURCE--J. GEOPHYS. RES. (USA), VOL. 75, NO. 5, P. 877-85 (10 FEB. 1970)

DATE PUBLISHED ---- 70

SUBJECT AREAS--EARTH SCIENCES AND OCEANOGRAPHY

TOPIC TAGS-UPPER MANTLE, EARTH CRUST, VERTICAL EARTH CRUST MOVEMENT,

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/1081

STEP NO--US/0000/70/075/005/0877/0885

CIRC ACCESSION NO--APO136501

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

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PROCESSING DATE—27NOV7O

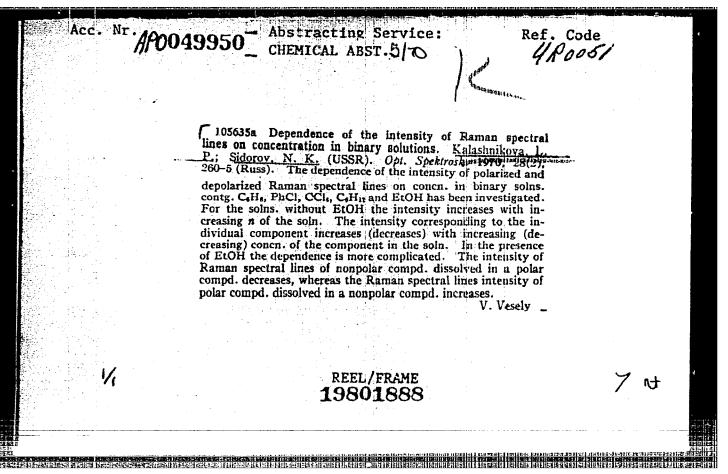
CIRC ACCESSION NO—APO136501

ABSTRACT/EXTRACT—(U) GP—O— ABSTRACT. PHASE TRANSFORMATIONS IN THE UPPER MANTLE COULD BE CONSIDERED AS THE CAUSE OF RECENT VERTICAL CRUSTAL

'MOVEMENTS. USING DATA OBTAINED IN HIGH PRESSURE EXPERIMENTS,

CALCULATIONS JUSTIFY SUCH AN ASSUMPTION. THE OSCILLATIONY CHARACTER OF MOVEMENTS WITH PERIODS 10 PRIME4—10 PRIME5 YEARS IS EXPLAINED BY THE DECOUPLING EFFECT OF AN ASTHENOSPHERE LAYER WITH LOW VELOCITY.

FACILITY: MOSCOW STATE UNIV., USSR.



UNCLASSIFIED PROCESSING DATE--020CT70
TITCE--FLUTATION OF GOLD ORES BY A FROTH SEPARATION PROCESS -U-

AUTHOR-(05)-ZELENDV, V.I., UVAROV, YU.P., GUREVICH, R.I., GORELOVA, A.N.,

COUNTRY OF INFO-USSR

SOURCE--TSVET. METAL. 1970, 43(1), 88-9

DATE PUBLISHED -----70

SUBJECT AREAS-MATERIALS, EARTH SCIENCES AND OCEANOGRAPHY
TOPIC TAGS-GOLD, ORE, QUARTZ, CHEMICAL SEPERATION, FLOTATION

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1989/0745

STEP NO--UR/0136/70/043/001/0088/0069

CIRC ACCESSION NO--APO107287

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

2/2 UNCLASSIFIED 010 PROCESSING DATE--020CT70 - CIRC ACCESSION NO--APO107287 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE PURPOSE FO THE PRESENT NORK CONSISTED IN DETG. WHETHER THE FROTH SEPN. TECHNIQUE CAN BE USED FOR THE SEPN- OF AU ORES. THE SEPN. WAS DONE ON A LAB. APP. MIXTS. OF AU AND QUARTZ POWDERS WERE SUBJECTED TO SEPN. WITH THE RESULTS OBTAINED BY MECH. PROCESSES. FLOTATION BY FROTH SEPN. IS BOTH FASTER AND MORE THOROUGH THAN MECH. FLOTATION. ALSO, EXTN. OF AU IS HIGHER BY THE FORMER PROCESS. UNCLASSIFIED

UDC 539.1.073.7

KALASHNIKOVA, V. I., KOLYUBIN, A. A., and LEMESHKO, B. D.

"The Possibility of Controlling the Sensitivity of Photographic Emulsions by an Electric Field"

Moscow, Pribory i Teknnika Eksperimenta, March-April 1973, pp 76-78

Abstract: This article investigates the possibility of controlling the sensitivity of photographic emulsions by an electric field when the emulsions are used for recording ionizing particles and when the activity considered involves observations of radiation from a nuclear phenomenon occurring at mandom moments of time. Under these circumstances, the sensitivity of the emulsion can be increased by applying a high-voltage pulse, synchronized with the event of the nuclear phenomenon. Experiments with photographic Mayers of the FT-101 type of emulsion under irradiation by protons with an energy of 100 Mev were performed with the emulsion in an electric field. At the same time the beam of protons was turned on, a high-voltage pulse Masting 50 µs was applied to the emulsion. Control emulsions subject to the same proton irradiation but without benefit of the electric field were also developed. Photographs of both types of specimen are produced. It is concluded that a photographic emulsion can be used as track detector with controllable sensitivity. 1./1

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UDC 77.01:772.933

PEVCHEV, YU. F., KALASHNIKOVA, V. I., KONOVALOVA, L. P.

"Concerning the Mechanism of the Effect of a Pulsed Electrical Field Upon the Photographic Process"

Moscow, Zhurnal Nauchnoy i Prikladnoy Fotografii i Kinematografii, Vol 15, No 4, 1970, pp 250-256

Abstract: It is shown that the positive as well as the negative effect of the action of a pulsed electrical field, determined through the ratio of the difference in the density of blackening with the field and without the field to the density of blackening without the field, first increases linearly with an density of blackening without the field, and then passes into saturation. Decreasincrease in the intensity of the field, and then passes into saturation. Decreasing the illumination of the photographic layer brings about a sharp increase of ing the illumination of the photographic layer brings about a characteristic voltage pulse, the effect decreases roughly exponentially with a characteristic voltage pulse, the effect decreases roughly exponentially with a characteristic time of about 30 microseconds. The action of the electrical field is regarded time of about 30 microseconds. The action of the electrical field to the surface of Since the photoelectrons are displaced by the electrical field to the surface of the microcrystal, their behavior is essentially determined by the number and character of the electron traps located on a small sector of surface. The

FEVCHEV, YU. F., et al., Zhurnal Nauchnoy i Prikladnoy Fotografii i Kinematografii, Vol 15, No 4, 1970, pp 250-256

absence of a sensitivity center in the region of the accumulation of photoelectrons brings about the formation of a dispersed latent image and, in the final count, to a negative effect; the presence of a sensitivity center creates conditions for concentration of the silver of the latent image at this center, which brings about a positive effect of the action of the field. The value of the effect is determined by the relationship between the intensity of the exposure, which determines the total number of photoelectrons, and the intensity of the electrical fields, which determines the number of electrical-charge carriers required for compensation of the field in the microcrystal. The sign of the effect of the action of the electrical field is tied to the average number of sensitivity centers per microcrystal. These considerations provide an explanation for the most characteristic feature of the effect of the action of the field -- its ambiguity. They are based upon the assumption that the sign of the field action effect is determined by the probability of there being at least one sensitivity center on a comparatively small random sector of the surface of an emulsion microcrystal. It can be easily seen that this probability depends only on the average number of sensitivity centers per microcrystal of the emulsion. If the average number of sensitivity centers per microcrystal is small (of the order of 1), the

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PEWCHEV, MU. F., et al., Zhurnal Nauchnoy i Prikladnoy Fotografii i Kinematografii, Vol. 15, No 4, 1970, pp 250-256

probability that there will be a sensitivity center on a small sector of the surface of a microcrystal is obviously small, and the field action effect will be negative in the overwhelming majority of microcrystals. And on the contrary, with a comparatively large number of sensitivity centers per microcrystal, the probability that a sensitivity center will randomly occur in the region of the accumulation of electrons under the action of the electrical field will be of the order of unity, and for the majority of the microcrystals of the emulsion the effect will be positive. On the other hand, it can be shown that equisensitivity of the emulsion microcrystals, and, consequently, also high contrast of the photographic emulsion, may be provided only with a comparatively large average number of centers per microcrystal. From this point of view, the mechanism of the action of the electrical field upon the structure of the latent photographic image makes it possible to understand the basic experimental fact that the investigated photographic films, being divided into two groups on the basis of the sigm of the observed effect, are also divided rather clearly on the basis of their parametric properties, the positive effect being, as a rule, linked to high contrast. Moreover, it has been, shown on experimental film specimens that the positive effect of the action of the field is due to the introduction of rhodium chloride into

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PEVCHEV, YU. F., et al., Zhurnal Nauchnoy i Prikladnoy Fotografii i Kinematografii, Vol. 15, No 4, 1970, pp 250-256

the emulsion in the process of its ripening, which considerably increases the contrast of the emulsion. These considerations concerning the behavior of the possible mechanism of the action of an electrical field upon the structure of the latent photographic image are basically qualitative, and explain only the general terdencies in the behavior of the observed effects.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

USSR

UDC: 8.74

DOVGOPOLYY, V. G., KALAYDA, Ye. I., KONOZENKO, V. I., MASHBITS, G. Ya., HIKITIN, A. I.

"Principles of Adjusting an Operational System for a Variable Set of Equipment, and the Number of Schvable Problems"

Kiev, Konstruirovaniye i vnedreniye novykh sredstv vychisl. tekhn.—sbornik (Designing and Introducing New Computer Facilities—collection of works), t. 1, 1971, pp 91-94 (from RZh-Kibernetika, No 7, Jul 73, abstract No 7V639)

Translation: Rapid and effective alignment of an operational system for a certain set of equipment and the necessary number of problems to be hundled is one of the most urgent and most complicated problems of systems programming. This paper describes methods of solving some aspects of this problem; these procedures have been used in developing an operational system for the "Dnepr-2" computer. An operational system of modular structure was used as the basis of these methods (see Ye. I. Kalayda, V. I. Konozenko, G. Ya. Mashbits, A. I. Nikitin, "Konstruirovaniye i vnedreniye novykh sredstv vychisl. tekhn.", t. 1, pp 94-96).

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USSR

SUPIN, G. S., EEZUGLYY, S. F., MAKAROVA, S. V., OVSISHCHER, M. R., KALASHRI-KOVA, V. H., MIKHEYEVA, S. YA., and ZAKS, P. G.

"Mercurometric Volumetric Method of Determining Phthalophus (With Visual and Amperometric Endpoint)"

V sb. Khim. sredstva rashchity rast. (Chemical Agents for Plant Protection -collection of works), vyp 1, hoscow, 1970, pp 81-83 (from REh-Khimiya, No 11, Jun 72, Abstract No 11N409)

Translation: A specimen containing phthalophos (I) is hydrolyzed in an alkaline medium, the resultant dimethyl dithiophosphate is volumetrically analyzed with 0.01 N Hg(NO3)2 in the presence of a 1% alcohol solution of diphenylcarbazone until the pink color bacomes lilac blue. Amperometric

thtration is done with a vibrating platinum electrode or a dropping mercury electrode relative to a saturated Hg2Cl2 electrode. The sansitivity of amperometric titration is 0.05 mg of I, and that of the visual method is 0,6 mg of I.

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UDC 632.95

BEZUCLYY, S. F., KALASHNIKOVA, V. N., and MIKHEYEVA, S. YA.

"Emulsion Concentrates of Phosphamide and Their Chemical Stability"

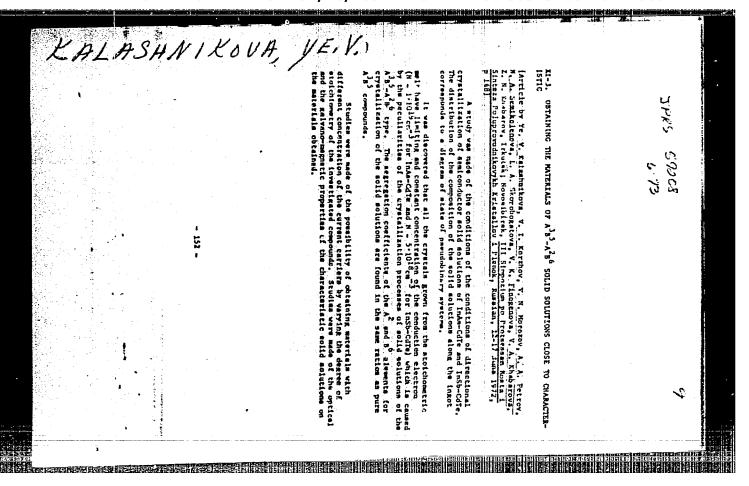
V sb. Khim. sredstva zashchity rast. (Chemical Plant Protectants -- collection of works), vyp 1, Hoscow, 1970, pp 276-280 (from RZh-Khimiya, No 13, 10 Jul 72, Abstract No 13N472 by I. Pil menshteyn)

Translation: A study was made of the chemical stability of 40% emulsifiable concentrates (EC) of phosphamide based on various solvents during storage at 1-5, 20-25 and 35°. The most stable is an EC containing cyclohexanone and OP-7. In 15 months the decomposition of the phosphamide in such an EC was 1.87% at 1-5°, 3.67% at 35°, and 2.63% at 20-25° in 25 months and 20 days.

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UDC 576.8.095.38:616-001.4-002.3

KALASHNYK, S. O., Ternopol' Medical Institute, Ternopol'

"Some Properties of Bacterial Associations Isolated From Suppurative Wounds of Surgical Patients"

Kiev, Mikrobiologicheskiy Zhurnal, Vol 33, No 5, Sep/Oct 71, pp 619-624

Abstract: From suppurating wounds of patients who had undergone surgery or developed suppurative wounds for other reasons, associations of microorganisms consisting of 2-5 species were isolated. In 22 associations derived from the same number of patients, Staphylococci, Proteus vulgaris, gram-positive bacilli, same number of patients, Staphylococci, Proteus vulgaris, gram-positive bacilli, E. coli, and B. pyocyaneus were present in 15, 13, 12, 7, and 5 cases, respectively. Formation of toxins (alpha-hemolysin, beta-hemolysin, lethal toxin) and enzymes (hyaluronidase, lecithinase, plasmacoagulase) by cultures of the associations was determined and compared with toxin formation by cultures of the individual species of microorganisms. The toxicogenic and enzyme-forming activities of the associations differed from those of the species present in them; in the majority of cases, they were less pronounced. The association of Proteus vulgaris with Staph. aureus and Staph. albus did not produce either alpha— or beta-hemolysis, while the toxins formed by individual species of this association brought about a rather intensive hemolysis of erythrocytes.

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

USSR

KALASHNYK, S. O., Mikrobiologicheskiy Zhurnal, Vol 33, No 5, Sep/Oct 71, pp 619-624

Staph. albus of this association had a lethal toxin activity that was twice as high as that of the association. A culture of B. pyocyaneus together with Proteus vulgaris produced a stronger lethal toxin effect than either of them cultivated separately. The presence of Proteus vulgaris in an association generally reinforced the lethal toxin activity. While the sensitivity of monocultures to 10 antibiotics used in tests was low, the resistance of associations to these antibiotics was higher than that of individual species grown in monocultures.

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USSR

UDC: 8.74

BABITSKIY, V. A., KALATSKAYA, L. V.

"Software for a Multiterminal Teaching and Computer System Based on the Minsk-2/22"

Mat. i Inform. Probl. Prognozir. i Upr. Naukon [Mathematics and Information Problems of Prediction and Control of Science--Collection of Works], Kiev, 1971, pp 194-201 (Translated from Referativnyy Zhurnal Kibernetika, No 11, 1972, Abstract No 11V578, by V. Ostrovskiy)

Translation: A time-sharing system is described. Three operating modes of the system are provided: teaching, author and teacher. The last two modes provide high teaching effectiveness. The system and store and edit incoming information and collect statistical data on the course of teaching. The user relates to the system using a control language which is invariant relative to the contents of the course being studied. The structure of the system is traditional: a supervisor in a certain sequence runs the editor, monitor or one of the service programs. If the system is operating at less than full load, batch problems are activated. Requests for servicing are satisfied in order of arrival (without quantization of the servicing interval of each request).

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

USSR

UDC 532.596+551.46.06.8

KALATSKIY, V. P.

"Calculation of the Depth of the Upper Boundary of a Seasonal Thermocline in the Ocean"

Tr. Gidrometeorol. n.-i. tsentr. SSSR (Works of the Hydrometeorological Scientific Research Center of the USSR), 1972, No. 60, pp 62-66 (from RZh-Mekhanika, No 8, Aug 72, Abstract No 8B618)

Translation: The problem of calculating the depth of the upper boundary of a seasonal thermocline in the open ocean is discussed. The ocean has two strata. The upper stratum is isothermal and the temperature varies with time in accordance with the seasonal change in the surface temperature of the ocean. The heat flow is determined at the boundary between the layers and the solution of the heat conductivity equation obtained for the lower layer is used. The thickness of the upper isothermal layer is determined from average data on the heat flow through the surface of the ocean during spring-summer heating and from calculated data on the heat flow through the lower boundary. Calculations based on observations at a weather station in the Pacific Ocean are given ($\phi = 50^{\circ}$ north latitude, $\lambda = 145^{\circ}$ west longitude). The results agree qualitatively with data from the observations. Author's abstract.

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1/2 024

UNCLASSIFIED

PROCESSING DATE--300CT70

TITLE--USE OF CHLORO DERIVATIVES OF ISOCYANURIC ACID FOR FIBER BLEACHING

AUTHOR-(02)-BELTSOV, V.M., KALAUS, I.V.

COUNTRY OF INFO--USSR

SOURCE-TEKST. PROM. (MOSCOW) 1970, 30(2), 54-5

DATE PUBLISHED ---- 70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--RAYON, CELLULOSE, SYNTHETIC FIBER, ACETATE, OPTIC PROPERTY, SODIUM COMPOUND, CHLORIDE, NATURAL FIBER, CHEMICAL STABILITY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1992/1755

STEP NO--UR/0342/70/030/002/0054/0055

CIRC ACCESSION NO--APOLIZ741

____UNCLASSIFIED_

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

2/2 C24 UNCLASSIFIED PROCESSING DATE--300CT70 CIRC ACCESSION NO--APO112741 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. CELLULOSE ACETATE FIBERS (I), POLY(ETHYLENE TEREPHTHALATE) (11) FIBERS, AND I OR II BLENDS WITH COTTON (III) OR RAYON FIBERS WERE BLEACHED WITH 2-3 G-L. NA DICHLORDISOCYANURATE (IV) SOLNS. IV SOLNS. WERE STABLE AT PH 3-9.5 AND 20-80DEGREES. THE OPTIMUM TEMPS. WERE 20-30DEGREES FOR I AND 60-5DEGREES FOR II OR ITS BLENDS. BLEACHING TIME WAS 25-30 MIN. THERE WAS NO LOSS OF STRENGTH OF I OR II AFTER BLEACHING; THEIR WHITENESS REACHED 82-85.6PERCENT. THE BLENDS OF II AND III RETAINED 95.5-97.OPERCENT OF THE ORIGINAL STRENGTH AFTER BLEACHING TO 84.2PERCENT WHITENESS. FACILITY: LITLP IM. KIORVA, LENINGRAD, USSR.

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

UNCLASSIFIED:

USSR

KALAYDA, Ye. I., KONOZENKO, V. I., MASHBITS, G. Ya., NIKITIN, A. I.

"Some Problems of Systems Programming Arising with Modular Organization of an Operational System"

Konstruirovaniye i vnedreniye novykh sredstv vychisl. tekhn. T. 1 [Design and Introduction of New Computer Equipment. Volume 1 -- Collection of Works], Kiev, 1971, pp 94-98 (Translated from Referativnyy Zhurnal - Kibernetika, No 8, 1973, Abstract No 8 V639 by V. Ostrovskiy)

Translation: Certain methods of systems programming used by the authors in the development of the DD-3 operational system for the Dnepr-2 computer are presented. Attention is drawn to the fact that the success of development of an OS depends to a great extent on making of the proper decisions in such problem areas as: efficient organization of the program; revision of system expandability; special approaches for combined debugging; methods for automatic OS generation. The authors feel that the key to the solution of these problems lies in modular organization of the system. In this connection, a general description of the structure and process of functioning of standard modules used in the development of DD-3 is presented.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

USSR

KALAYDA, Ye. I., KONOZENKO, V. I., MASHBITS, G. Ya., NIKITIN, A. I. Konstrunrovaniye i vnedreniye novykh sredstv vychisl. tekhn. T. 1, Kiev, 1971, pp 94-98

The modular organization of the OS allowed a mean productivity of 8 to 10 instructions per day per programmer to be achieved in the period of writing and debugging of the main portion of DD-3 (approximately 10,000 instructions), and is recommended by the authors for use in developing of large programming systems for computers.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

USSR UDC: 681.327

HLAZHKO, S. S., ZASLAVSKIY, R. I., KALAYDA YE I, MASHBITS, R. Ya., KUKHARCHUK, A. G., NIKITIN, A. I., Institute of Cybernetics of the Academy of Sciences of the UkrSSR, and Electronic Computer and Control Computer Plant

"A Device for Data Transmission From the Input Unit to the Memory in a Digital Computer"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Znaki, No 30, Oct 71, Author's Certificate No 317056, Division G, filed 27 Jun 69, published 7 Oct 71, p 172

Translation: This Author's Certificate introduces a device for data transmission from the input unit to the memory in a digital computer. The device contains a data address counter and a symbol register. As a distinguishing feature of the patent, program processing of words is simplified by including a balance circuit, a word symbol counter, a pattern address counter, an initial pattern address register, a space symbol decoder, and a zero decoder for the word symbol counter. The first output of the balance circuit is connected to the input of the data address counter, the second output is connected to the input of 1/2

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BLAZHKO, S. S. et al, Otkrytiya, Izobreteniya, Promyshlonnyye Obraztsy, Tovarnyye Znaki, No 30, Oct 71

the word symbol counter, and the third output is connected to one input of the pattern address counter. Connected to the other input of the pattern address counter is the output of the initial pattern address register. The first input of the balance circuit is connected to the output of the space symbol decoder, whose input is connected to the output of the symbol register. The second input of the balance circuit is connected to the output of the word symbol counter, and the third input of the balance circuit is connected to the output of the zero decoder for the word symbol counter. The zero decoder input is connected to the output of the word symbol counter.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

Acc. Nr. APO048838_

Abstracting Service: CHEMICAL ABST.

Ref. Code UROY59

91100h Polymer-analogous reactions of poly(a-chloroac-rylonitrile). Chukhadzhyan, G. A.; Kalaidzhyan, A. E.; Petrosvan, V. A. (Vses. Nauch. Issled. Inst. Polymer Prod. USSR). Vysokomol. Soedin., Ser. A. 1970, 12(1), 171-6 (Russ). The dehydrochlorination of [-CH₂C(CN)Cl-], (I) (K. Kuliushiro, et al., 1964) in HCONMe₂ soln., with LiCl, NEt₃, or pyridine at ~60° gave [-CH:C(CN)-], (II) which is sol. in HCONMe₂ and at 150-250° cyclizes to III, which is a semiconductor (sp. vol. resis-

$$(m, x - H)$$

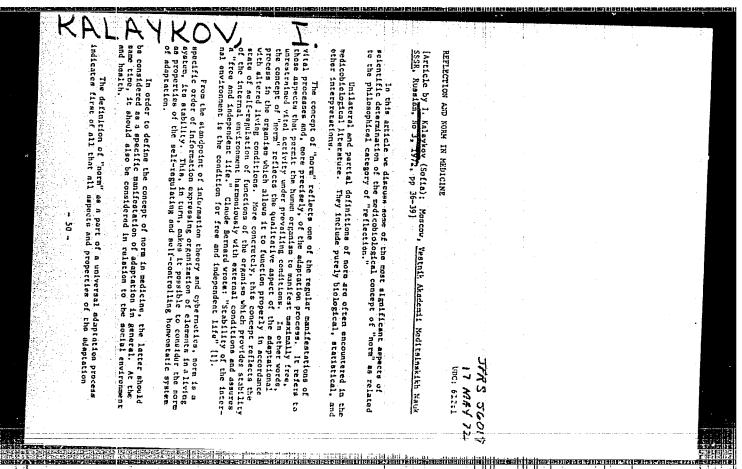
$$(VI, x - CI)$$

tivity 8 × 10°), not sol. in HCONMe₂, and stable ≤ 600°. III was pyrolyzed at >600° to a graphite-like stable substance. Heating I gave III directly, but [CH₂C(CONH₂)Cl]_n on heating lost NH₃ and partly decompd. The reaction of I with H₂S gave [—CH₂C(CSNH₂)Cl]_n which on dehydrochlorination gave [—CH:C(CSNH₂)—]_n. The chlorination of II in HCONMe₂ gave [—CHC(C(N)Cl—]_n (IV), which at room temp. lost HCl, forming [—CCl:C(CN)—]_n (V). Thermal dehydrochlorination of IV or cyclization of V gave VI which is a thermally stable semiconductor. Chlorination of V in HCONMe₂ gave [—CCl₂C(CN)Cl—]_n.

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1/2 027 UNCLASSIFIED PROCESSING DATE--18SEP70
TITLE--WET DISINFESTATION OF EMPTY STOREHOUSES WITH LEBAYCID -U-

AUTHOR-102)-KARYAN, A.A., KALBERGENOV, GAA

COUNTRY OF INFO--USSR

SOURCE--KHIM. SEL. KHOZ. 1970, 8(1), 27-8

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS -- INSECTICIDE, INSECT CONTROL/(U)LEBAYCID INSECTICIDE

CONTROL MARKING-NO RESTRICTIONS

PROXY REEL/FRAME--1990/0721

STEP NO--UR/0394/70/008/001/0027/0028

CIRC ACCESSION NO--APO108927

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

2/2 027	UNCLASSIFIED	PROCESSING DATE185EP70	
CIRC ACCESSION NOAPO108927 ABSTRACT/EXTRACT(U) GP-0- IN 0.3 L. H SUB2 O-M PRIME2 CONFUSED FLOUR BEETLE, AND	WAS FULLY EFFECTIVE	E AGAINST GRAIN CURCULIO.	
	LASSIFIED	89	

UBSR

UDC: 62-507

YAKUBAYTIS, E. A., KALBERZIN A. Ya

"Upper Bound of the Minimum Number of Internal States of One Class of Asynchronous Finite Automata"

Riga, Avtomatika i Vychislitel'naya Tekhnika, No 4, Jul/Aug 72, pp 1-7

Abstract: The authors consider the effect which deviation from an ideal shape of input signals has on operation of asynchronous finite automata based on integrated circuitry. It is assumed that real signals behave in conformity with the conditions

 $t_{0+1} > 0$; $t_{1-0} > 0$; $1 > \beta_1 > \beta_0 > 0$.

where l_{0-1} is the time of change of a signal from 0 to 1; l_{1-1} is the time of change of a signal from 1 to 0; β_1 is the signal level above which the signal is perceived by the integrated circuit as a 1; β_0 is the signal level below which the signal is perceived as a 0. Primary tables of transitions in such automata are presented and converted to matrices of input states. A procedure is presented for minimizing the number of lines in such a matrix.

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UNCLASSIFIED PROCESSING DATE--020CT70
TITLE--SEARCH OF THE RAPID SPATIAL VARIATIONS OF THE INTENSITY OF THE
UXYGEN GREEN LINE -UAUTHOR-(U4)-KALCHAYEV, K.K., KOROBEYNIKOVA, M.P., NASYRUV, G.A.,

AUTHOR-(U4)-KALCHAYEV, K.K., KOROSEYNIKOVA, M.P., NASYRUV, G.A., KHAMIOULINA, V.G. CGUNTRY OF INFO-USSR

SOURCE—FAZDEL IV. POLYARNYYE SIYANIYA I SVECHENIYE MOCHNOSO NEBA, 1970, RANK 18, PP 15-17 DATE PUBLISHED----70

SUBJECT AREAS-PHYSICS, ATMOSPHERIC SCIENCES

TOPIC TAGS--OXYGEN, SPECTRAL LINE, EMISSION SPECTRUM, RADIATION SPECTRUM, RADIATION SPECTRUM,

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REFLIENAME--1994/0055

STEP NG--UR/3307/70/000/018/0015/0017

CIRC ACCESSION NO--APOI14451

UNCLASSIFIED

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UNCLASSIFIED PROCESSING DATE--020CT70
CIRC ACCESSION NO--APOLI4451
ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. ACCORDING TO THE UBSERVATIONS
CARRIED OUT IN ASHKHABAD THE ENTIRE SKY WAS SCANNED IN EMISSION AT 5577
ANGSTRUM WITHIN TWO UR THREE MINUTES. THE ANALYSIS OF ISOPHOTES TAKEN
AS A FILM REVEALS THE EXISTENCE OF SPOTS WHOSE SIZE VARIES IN A RAPID
PULSATING MANNER.

UNCLASSIFIED

USSR

VERGEBRYY, V. P.; KALLCHENKO, A. T.: PASECHNIK, M. V. (Institute of Kuclear Research, Ukrainian Academy of Sciences)

"Level Density of Compound Nuclei in the Region A=130-200 and Other Nuclear Properties"

Moscow, Yadernaya Fizika; July, 1972; pp 38-41

ABSTRACT: Recently at the WR-M reactor of the Institute of Huclear Research of the Ukrainian Academy of Sciences some data on neutron resonance for a considerable number of nuclei over the range of mass numbers A = 130-192 were obtained by the time-of-flight method. These data were used to calculate the level density of expound nuclei close to the excitation energy equal to the binding energy. This paper presents data on the dependence of the mean distance between levels for a fixed excitation energy as a function of the number of neutrons in a nucleus.

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

1/2 014 UNCLASSIFIED PROCESSING DATE--20N0V70

TITLE--CIRCULATURY DISTURBANCES IN THE SKIN OF THIGH STUMP DEPENDING ON TYPE LF THE PROSTHESIS SOCKET -UAUTHOR-(02)-KALCHENKO, A.S., PLOTNIK, L.G.

CCUNTRY CF INFO--USSR

SCURCE--ORTUPEDIYA, TRAVMATOLOGIYA I PROTEZIROVANIYE, 1970, NR 5, PP 11-14

DATE PUBLISHED-----70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

EDPIC TAGS--SKIN PHYSIOLOGY, BLOOD CIRCULATION, AMPUTATION

CENTROL MARKING--NO RESTRICTIONS

DOGUMENT CLASS-UNCLASSIFIED PRUXY REEL/FRAME-3004/0748.

STEP NO--UR/9115/70/000/005/0011/0014

CIRC ACCESSION NO-APOT31343

UNCLASS LFIED

是非"人。"第二 ≈ 014 UNCLASSIFIED PROCESSING DATE-ZONOV70 CIRC ACCESSION NO--APOISE343 ABSTRACT/EXTRACT--(U) GP-C- ABSTRACT: THE RESULTS OF CAPILLARDS COPIC AND CAPILLARCGRAPHIC STUDIES (266) OF SKIN OF THE THIGH STUMPS IN 38 AMPUTEES EQUIPPED WITH THIGH PROSTHESES WITH TOTAL CONTACT RECEIVING SOCKETS AND VACUUM FIXATION ARE PRESENTED : CAPTULAROSCOPY WAS USED AS AN CBUECTIVE METHOD, AND AS THE MOST SIMPLE, HARMLESS AND, AT THE SAME TIME, SUFFICIENTLY INFORMATIVE PROCEDURE. THE OBTAINED DATA OF CAPILLARCSCOPY AND CAPILLAROGRAPHY PERMIT JUDGEMENT AUCUT THE PERIPHERAL BEOGD CIRCULATION IN THE THIGH STUMP DEPENDING ON THE METHOD OF CONTACT WITH THE PROSTHESIS SUCKET. THE CLINICAL OBSERVATIONS AND CAPILLINGSCOPIC STUDIES REVEALED THE TOTAL CONTACT SOCKET TO BE MORE PHYSIULGUICAL THAN THE SUSPENDED SOCKET. FACILITY: KHAR!KOV. INSTITUTA PROTEZIROVANIYA, ORTOPEDIL I TRAVMATULOGII IN. M. I. SITENKO.

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UNCLASSIFIED

PROCESSING DATE--18SEP70

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TITLE-THE HEMOSTATIC EFFECT OF PRESERVED BLOOD AND BK8 SERUM -U-

AUTHOR-(03)-KALCHENKO, I.I., LYS, P.V., RYABYY, P.A.

COUNTRY OF INFO--USSR

SOURCE-KHIRURGIYA, 1970, NR 4, PP

DATE PUBLISHED ---- 70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--BLOOD COAGULATION, DIGESTIVE SYSTEM DISEASE, HEMORRHAGE, ERYTHROCYTE, BLOOD TRANSFUSION, PRESERVED BLOOD

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1983/1238

STEP NO++UR/0531/70/000/004/0048/0054

CIRC ACCESSION NO--APO054133

UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

2/2 026 UNCLASSIFIED PROCESSING DATE--185EP70 CIRC ACCESSION NO--APO054133 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. THE ARTICLE SETS FORTH DATA ON CHANGES OF THE BLOOD COAGULATION SYSTEM IN PATIENTS WITH GASTROINTESTINAL HEMORRHAGES OF ULCEROUS ETIOLOGY, HEMOPHILIA, WERLHOF'S DISEASE, AFTER TRANSFUSION OF PRESERVED BLOOD AND ERYTHROCYTIC SUSPENTION OF DIVERSE STORAGE LIFE, AS WELL AS THE INFLUENCE OF BK8 SERUM ON THE BLOOD COAGULATION. BLOOD COAGULATION INDICES WERE DYNAMICALLY STUDIED AFTER A SINGLE ENTRODUCTION OF TRANSFUSION MEDIA IN 119 PATIENTS, OF THIS NUMBER IN 96 PATIENTS WITH GASTROINTESTINAL HEMORRHAGE OF ULCEROUS ETIDLOGY, IN 12, WITH WERLHOF, DISEASE AND IN 11, AN ANALYSIS OF THE RESULTS DERIVED HAS SHOWN THAT WITH HEMOPHILIA. TRANSFUSION OF PRESERVED BLOOD WITH A STORAGE LIFE UP TO 2 WEEKS TO PATIENTS WITH GASTROINTESTINAL HEMORRHAGES OF ULCEROUS ETIDLOGY EXERTS A GOOD HEMOSTATIC EFFECT, THE ERITHROCYTIC SUSPENSION IS NOT ENDOWED WITH SUCH AN ACTION. TRANSFUSION OF NATIVE PLASMA AND PRESERVED BLOOD IN A QUANTITY OF 220 TO 250 ML TO PATIENTS WITH HEMOPHILIA AND WERLHOF'S DISEASE IS INADEQUATE FOR THE COMPLETE ELIMINATION OF COAGULATION DISTURBANCES CHARACTERISTIC OF THESE DISEASE. IT BECOMES NECESSARY TO INCREASE THE DOSE OF THESE HEMOSTATIC SUBSTANCES AND SHORTEN THE INTERVALS BETWEEN TRANSFUSIONS. THE TRANSFUSION OF BK8 SERUM CAUSES IN THE RECIPIENT NOTICABLE BLOOD COAGULATION DISTURBANCES IN ALL THREE INASMUCH AS NORMALIZATION OF THE BLOOD COAGULATION IN MOST CASES TAKES PLACE THREE DAYS AFTER TRANSFUSION OF THE SUBSTITUTE, ONE SHOULD TAKE DUE CONSIDERATION OF THIS FACT DURING TRANSFUSIONS TO PATIENTS SUBJECT TO OPERATIVE TREATMENT.

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USSR

WC 542.91+547.853.3

KAIDRIKYAN, M. A., and AROYAN, A. A., Institute of Fine Organic Chemistry, -imeni A. L. Hndozhoyan, Academy of Sciences Armenian SSR, Yerevan

"Pyrimidine Derivatives. XIX.. Some N-Substituted Thiobarbituric and Barbituric Acids"

Yereyan, Armyanskiy Khimicheskiy Zhurnal, Vol 24, No 10, 1971, pp 913-917

Abstract: With the view of studying the physiological properties of the compounds obtained, N-(p-alkoxybenzyl)thioureas were reacted with malonic ester in the presence of NaOEt, whereupon N-(p-alkoxylenzyl)thiobarbituric acids formed. The latter were converted by the action of HoO, into N-(p--alkoxybenzyl)barbituric acids. The N-(p-alkoxybenzyl)thioureas had been prepared by reacting p-alkoxybenzyl thiocyanates with NH2. By the reaction

of phenylthiourea with p-alkoxybenzylmalonic esters in the presence of NaOEt, N-phenyl-5-(p-alkoxybenzyl)thiobarbituric acids were obtained. These thiobarbituric acids were converted into methylmercapto derivatives by the action of KeI. The compounds synthesized are listed in tables together with their melting points.

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1/2 021 UNCLASSIFIED PROCESSING DATE--LISEPTO

TITLE-+POLYMERIZATION AND CYCLOTRIMERIZATION OF ACETYLENE IN THE PRESENCE

OF COMPLEX ORGANOMETALLIC CATALYSTS -UH

AUTHOR--SHMIDT, F.K., LIPOVICH, V.G., KALECHITES, I.V.

COUNTRY OF INFO--USSR

SOURCE--KINET. KATAL. 1970, 11(1) 251-3

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS -- POLYMERIZATION, CATALYST ACTIVITY, TRANSITION METAL, COMPLEX COMPOUND, ACETYLENE, ORGANIC PHOSPHOROUS COMPOUND

CONTROL MARKING--NO PESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1989/0204

STEP NO--UR/0195/70/011/001/0251/0253

CIRC ACCESSION NO--APO106860

----UNCLASSIFIED

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

PROCESSING DATE--11SEP70 UNCLASSIFIED 021 2/2 CIRC ACCESSION NO--AP0106860 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE CATALYTIC ACTIVITY OF TRANSITION METAL ACETYLACETONA TO COMPLEXES WITH ET SUB3 AL IN POLYMN. OF C SUB2 H SUB2 DECREASED IN THE CATION ORDER: FE LARGER THAN NI LARGER THAN V LARGER THAN CR. IN THE PRESENCE OF MILITI COMPLEX. C SUB2 H SUB2 GAVE C SUB6 H SUB6 AND A POLYMER. ACTIVITY AND SELECTIVITY OF THE CATALYSTS DEPENDED ON AL-METAL, COMPLEX RATIO. WHEN THE REACTION WAS PERFORMED IN THE PRESENCE OF AN ORGANDPHOSPHORUS COMPO. (ALONG WITH THE CATALYST SYSTEM) THE ACTIVITY DECREASED IN THE ORDER: PLOETI SUB3 SIMILAR, TO. P. COPR-ISO) SUB3 LARGER THAN P(PH) SUB3 LARGER THAN P(OPH) SUB3. THESE COMPOS. PROMOTED CYCLOTRIMERIZATION OF C SUB2 H SUB2. UNCLASSIFIED -

APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

USSR

KADMENSKIY, S. G., KALECHITS, V. YE., and KHLEBOSTROYEV, V. G., Voronezh State University

"Stripping Reactions With Transfer of Two Nucleons and the Polarizability of t, He^{3} "

Moscow, Yadernaya Fizika, Vol. 12, No. 2, Aug 70, pp 302-307

Abstract: The possibility of explaining anomalies in reactions of the type (t,p), $(\mathrm{He^3},n)$ by the polarizability of triton or $\mathrm{He^3}$ in the field of the target nucleus is examined. These reactions occur in several nuclei in the lp-shift when an anomalous peak is observed at zero angle in the angular distribution for the case of momentum transfer L=2. Computer calculations were made to explain anomalous reactions with the aid of the polarizability of tritons for reactions $\mathrm{B^{10}}$ $(t,p)\mathrm{B^{12}}$ in which the anomaly appears most strongly in the cross section. Calculations show that the relationship between the calculated amplitudes of the reaction were little affected by variation in the width of the potential hole. A graph of the amplitude of the reaction as a function of the

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APPROVED FOR RELEASE: 07/20/2001 CIA-RDP86-00513R002201210002-1"

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KADMENSKIY, S. G., et al, Yadernaya fizika, Vol. 12, No. 2, Aug 70, pp 302-307

scattering angle shows that the maximum amplitude as calculated by the plane wave approximation is greater than the maximum amplitude as calculated considering the polarizability of tritons by a factor of 250. It is concluded that none of the mechanisms presently known can explain the anomalous features of the cross section of the stripping reaction with transfer of two nucleons. It is hypothesized that these characteristics can be explained only by subsequent consideration of wave distortion, including distortion of wave functions of the center of gravity of triton and the wave function of the proton.

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SSA CHARLES HERSELDS ASSAULTER FOR THE STATE OF THE STATE

1/2 019 UNCLASSIFIED TITLE--PREPARATION OF BLOOD ABOARD SHIPS -U-

PROCESSING DATE--27NOV70

AUTHOR-(03)-GURIN, N.N., SHEVCHENKO, V.D., KALEKO, S.P.

COUNTRY OF INFO--USSR

SOURCE--VOENNO-MED ZH 1. 62-64. ILLUS. 1970

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--BLOOD PROTEIN, BLOOD TRANSFUSION, SHIP AUXILIARY EQUIPMENT

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3009/0138

STEP NO--UR/0177/70/001/030/0062/0064

CIRC ACCESSION NO--AP0139003

UNCLASSIFIED

PROCESSING DATE--27NOY70 2/2 019 UNCLASSIFIED CIRC ACCESSION NO--AP0139003 ABSTRACT/EXTRACT--(U) GP-0-ABSTRACT. SCHEMES FOR DRGANIZING THE COLLECTION AND PREPARATION OF BLOOD ABOARD VARIOUS TYPE SHIPS ARE PRESENTED. COLLECTION TEAMS OF 5, 9, AND 11 PERSONS ARE RECOMMENDED WHEN HANDLING LESS THAN 40, 41-80, AND GREATER THAN 80 DONORS, THESE SCHEMES WERE PRACTICAL, AND BLOOD THUS COLLECTED RESPECTIVELY. HAS BEEN USED TO PREPARE BLOOD PROTEIN HYDROLYZATE, BUT IS ALSO SUITABLE FOR TRANSFUSION WITH NO COMPLICATIONS. UNCLASSIFIED